

CURRICULUM VITAE

WONGSAKORN SUCHAOIN

Personal information

Name Wongsakorn Suchaoin
Nationality Thai
Address 599/478 Ratchadaphisek (Taphra-Taksin) Road, Bukkhalo,
Thonburi, Bangkok 10600 Thailand
E-mail wongsakorn.suchaoin@hotmail.com
Languages Thai (native language), English (proficient)

Education

2013-2017 PhD in Pharmaceutical Technology, Institute of Pharmacy,
University of Innsbruck, Austria
Dissertation title: Design of novel drug delivery systems providing
a prolonged mucosal residence time
2010-2012 Master of Science in Pharmacy (M.Sc. in Pharmacy), Department
of Pharmacology and Physiology, Faculty of Pharmaceutical
Sciences, Chulalongkorn University, Bangkok, Thailand
Thesis title: Effect of Caveolin-1 on hydrogen peroxide-mediated
oxidative stress and cell death in lung carcinoma cells
2003-2008 Bachelor of Pharmacy (B.Pharm, First Class Honors), Faculty of
Pharmacy, Chiang Mai University, Chiang Mai, Thailand
Thesis title: Clinical outcomes and adverse drug reactions in
migraine prophylaxis at Chiang Mai Neurological Hospital

License

2008-present Licensed pharmacist

Scholarship

2016 Awarded scholarship from BIONORICA-Stipendium
2013 Awarded scholarship from Austrian Federal Ministry for Science
and Research (BMWF) in the frame of the ASEA-UNINET
2010 Awarded scholarship from Chulalongkorn University Graduate
Scholarship to Commemorate the 72nd Anniversary of His Majesty
King Bhumibol Adulyadej

Professional experience

2023-present Lecturer, Division of Pharmaceutical Sciences, Faculty of
Pharmacy, Thammasat University, Pathumthani, Thailand
2017-2023 Lecturer, Faculty of Pharmacy, Siam University, Bangkok,
Thailand
2012-2013 Research assistant, National Nanotechnology Centre (NANOTEC),
National Science and Technology Development Agency (NSTDA),
Pathumthani, Thailand
2008-2010 Clinical pharmacist, Ramathibothi Hospital, Bangkok, Thailand

Experimental skills

- 1) Development of drug delivery systems and drug delivery studies: synthesis and characterization of thiolated polymers, design of drug formulations, mucoadhesion studies, permeation studies, *in vivo* studies, etc.
- 2) Cell culture technique and cell-based assays: cytotoxicity assay, genotoxicity assay, western blot, flow cytometry, ELISA, reactive oxygen species detection, transfection
- 3) Scientific software use: reference manager software (EndNote), statistical analysis software (SPSS), chemistry drawing software (ChemDraw)

Research articles

- 1) **Wongsakorn Suchaoin** and Pithi Chanvorachote. Caveolin-1 attenuates hydrogen peroxide induced oxidative damage to lung carcinoma cells. *Anticancer Research* 2012, 32(2):483-90.
- 2) **Wongsakorn Suchaoin**, Sonja Bonengel, Shah Hussain, Christian W. Huck, Benjamin N. Ma and Andreas Bernkop-Schnürch. Synthesis and *in vitro* evaluation of thiolated carrageenan. *Journal of Pharmaceutical Sciences* 2015, 104(8):2523-2530.
- 3) **Wongsakorn Suchaoin**, Sonja Bonengel, Julia Anita Griebinger, Irene Pereira de Sousa, Shah Hussain, Christian W. Huck and Andreas Bernkop-Schnürch. Novel bioadhesive polymers as intra-articular agents: Chondroitin sulfate-cysteine conjugates. *European Journal of Pharmaceutics and Biopharmaceutics* 2016, 101:25-32.
- 4) **Wongsakorn Suchaoin**, Irene Pereira de Sousa, Kesinee Netsomboon, Julia Rohrer, Patricia Hoffmann Abad, Flavia Laffleur, Barbara Matuszczak and Andreas Bernkop-Schnürch. Mucoadhesive polymers: Synthesis and *in vitro* characterization of thiolated poly(vinyl alcohol). *International Journal of Pharmaceutics* 2016, 503(1-2):141-149.
- 5) **Wongsakorn Suchaoin**, Irene Pereira de Sousa, Kesinee Netsomboon, Hung Thahn Lam, Flavia Laffleur and Andreas Bernkop-Schnürch. Development and *in vitro* evaluation of zeta potential changing self-emulsifying drug delivery systems for enhanced mucus permeation. *International Journal of Pharmaceutics* 2016, 510(1):255-262.
- 6) **Wongsakorn Suchaoin**, Arshad Mahmood, Kesinee Netsomboon and Andreas Bernkop-Schnürch. Zeta potential changing nanoparticles conjugated with cell penetrating peptides for enhanced transfection efficiency. *Nanomedicine* April 25, 2017. (doi:10.2217/nnm-2016-0345)
- 7) Flavia Laffleur, Julia Psenner and **Wongsakorn Suchaoin**. Permeation enhancement via thiolation: *in vitro* and *ex vivo* evaluation of hyaluronic acid-cysteine ethyl ester. *Journal of Pharmaceutical Sciences* 2015, 104(7):2153-2160.
- 8) Julia Rohrer, Ožbej Zupančič, **Wongsakorn Suchaoin**, Kesinee Netsomboon, Flavia Laffleur, Sejin Oh and Andreas Bernkop-Schnürch. Synthesis and *in vitro* characterisation of preactivated thiolated gelatin. *European Journal Polymer*. 2015, 73:268-277.
- 9) Kesinee Netsomboon, Flavia Laffleur, **Wongsakorn Suchaoin** and Andreas Bernkop-Schnürch. Novel *in vitro* transport method for screening the reversibility of P-glycoprotein inhibitors. *European Journal of Pharmaceutics and Biopharmaceutics* 2016, 100:9-14.
- 10) Irene Pereira de Sousa, Katrin Bottenhauser, **Wongsakorn Suchaoin**, Alexandra Partenhauser, Mara Perrone, Barbara Matuszczak and Andreas Bernkop-Schnürch. Thiolated graphene oxide as promising mucoadhesive carrier for hydrophobic drugs. *International Journal of Pharmaceutics* 2016, 509(1-2):360-367.

- 11) Gintare Leonaviciute, **Wongsakorn Suchaoin**, Barbara Matuszczak, Hung Thahn Lam, Arshad Mahmood and Andreas Bernkop-Schnürch. Preactivated thiolated pullulan as a versatile excipient for mucosal drug targeting. *Carbohydrate Polymers* 2016, 151:743-751.
- 12) Irene Pereira de Sousa, **Wongsakorn Suchaoin**, Ožbej Zupančič, Christina Leichner and Andreas Bernkop-Schnürch. Totally S-protected hyaluronic acid: evaluation of stability and mucoadhesive properties as liquid dosage form. *Carbohydrate Polymers* 2016, 152:632-638.
- 13) Kesinee Netsomboon, Alexandra Partenhauser, Julia Rohrer, Nadine Sündermann, Felix Prüfert, **Wongsakorn Suchaoin**, Flavia Laffleur and Andreas Bernkop-Schnürch. Preactivated thiomers for intranasal delivery of apomorphine: *in vitro* and *in vivo* evaluation. *European Journal of Pharmaceutics and Biopharmaceutics* 2016, 109:35-42.
- 14) Flavia Laffleur, Martina Michalek, **Wongsakorn Suchaoin** and Muhammad Ijaz. Design and evaluation of buccal-adhesive system made of modified xanthan. *Therapeutic Delivery* 2016, 7(7):423-429.
- 15) Kesinee Netsomboon, Flavia Laffleur, **Wongsakorn Suchaoin**, Felix Prüfert and Andreas Bernkop-Schnürch. Multifunctional adhesive polymers: Preactivated thiolated chitosan-EDTA conjugates. *European Journal of Pharmaceutics and Biopharmaceutics* 2017, 111:26-32.
- 16) John T. Elliott, Matthias Rösslein, Nam Woong Song, Blaza Toman, Agnieszka Kinsner-Ovaskainen, Rawiwan Maniratanachote, Marc L. Salit, Elijah J. Petersen, Fatima Sequeira, Erica L. Romsos, Soo Jin Kim, Jieun Lee, Nadia R. Von Moos, François Rossi, Cordula Hirsch, Harald F. Krug, **Wongsakorn Suchaoin** and Peter Wick. Toward achieving harmonization in a nano-cytotoxicity assay measurement through an interlaboratory comparison study. *ALTEX*, 2016 Sep 29.
- 17) Flavia Laffleur, Katrin Knapp, **Wongsakorn Suchaoin**, Alexandra Partenhauser, Kesinee Netsomboon, and Andreas Bernkop-Schnürch. Comparison of mucoadhesive and cohesive features of poly(acrylic acid)-conjugates respective their molecular mass. *European Journal of Pharmaceutics and Biopharmaceutics*, 2017, 113:149-156.
- 18) Suwimon Boonrungsiman, **Wongsakorn Suchaoin**, Paninee Chetprayoon, Nawin Viriyapempikul, Sasitorn Aueviriyavit, Rawiwan Maniratanachote. Shape and surface properties of titanate nanomaterials influence differential cellular uptake behavior and biological responses in THP-1 cells. *Biochemistry and Biophysics Reports*, 2017, 9:203-210.
- 19) Sirikarn Pengon, **Wongsakorn Suchaoin**, Chutima Limmatvapirat and Sontaya Limmatvapirat. Development of Nanoemulsions Containing Coconut Oil with Mixed Emulsifiers: Effect of Mixing Speed on Physical Properties. *Key Engineering Materials*, 2019, 819:181-186.

Review article

- 1) **Wongsakorn Suchaoin** and Andreas Bernkop-Schnürch. Nanocarriers protecting towards an intestinal pre-uptake metabolism. *Nanomedicine* 2017, 12(3):255-269.
- 2) **Wongsakorn Suchaoin**. PM_{2.5}: Effects on Human Health and Mechanism of Toxicity. Available on the website of Center for Continuing Pharmaceutical Education (https://ccpe.pharmacycouncil.org/index.php?option=article_detail&subpage=article_detail&id=638) 1 May 2019. (Article in Thai)

Oral presentation

- 1) Mucoadhesive and efflux pumps inhibitory properties of thiolated polymers, The 3rd Annual International Conference on Pharmaceutical Sciences, 2-5 May 2016, Athens, Greece

Poster presentation

- 1) **Wongsakorn Suchaoin** and Pithi Chanvorachote. Hydroxyl radical plays a key role in hydrogen peroxide-mediated oxidative damage in lung carcinoma cells. The 28th Annual Research Conference in Pharmaceutical Sciences. 20 January 2012, Bangkok, Thailand
- 2) Suwimon Boonrungsiman, **Wongsakorn Suchaoin** and Rawiwan Maniratanachote. Comparison of cellular uptake of titanate nanomaterials by human monocytes. SOT 52th Meeting & ToxExpoTM. 10-14 March 2013, Texas, USA
- 3) John T Elliott, Matthias Rösslein, Elijah Petersen, Nam Woong Song, Blaza Toman, Agnieszka Kinsner-Ovaskainen, Rawiwan Maniratanachote, Marc L. Salit, Fatima Sequeira, Erica Butt, Jieun Lee, Soo Jin Kim, François Rossi, Cordula Hirsh, Harald F. Krug, **Wongsakorn Suchaoin** and Peter Wick. Sustainable Nanotechnology Conference 2015. 10 March 2015, Venice, Italy
- 4) Benjabhorn Sethabouppha, Oranuch Thanaketpaisarn, **Wongsakorn Suchaoin**, Hung Thanh Lam, Andreas Bernkop-Schnürch. Water Absorption and Mucoadhesive Properties of *Scaphium macropodum* Beaum. (Malva Nut). The 4th Current Drug Development International Conference. 1 July 2016, Phuket, Thailand
- 5) Sirikarn Pengon, **Wongsakorn Suchaoin**, Chutima Limmatvapirat and Sontaya Limmatvapirat. Development of Nanoemulsions Containing Coconut Oil with Mixed Emulsifiers: Effect of Mixing Speed on Physical Properties. International Conference and Exhibition on Pharmaceutical Science and Technology. 18-19 June 2019, Bangkok, Thailand.